

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	47	bone and inject\$4 and (radiopaque with (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:45
L2	70	bone and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:54
L3	7	2 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:45
L4	4	2 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:46
L5	9	3 4	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:46
L6	79	(cement or implant\$4) and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces)) and (PMMA or polymethylmethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:55
L7	18	6 not 2	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:55
L8	0	7 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:55
L9	0	7 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:55
L10	104	(cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces or powder)) and (PMMA or polymethylmethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:56

## EAST Search History

L11	109	(cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity) with (particles or particulate or fragments or pieces or powder)) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:00
L12	7	11 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:56
L13	6	11 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:57
L14	11	12 13	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 17:57
L15	768	(cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and (particles or particulate or fragments or pieces or powder)) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:02
L16	448	(cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) and (particles or particulate or fragments or pieces or powder) and barium) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:09
L17	60	16 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:01
L18	17	16 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:01
L19	68	17 18	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:02

## EAST Search History

L20	0	(cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) near (particles or particulate or fragments or pieces or powder) near barium) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:02
L21	36	(cement or implant\$4 or bone) and inject\$4 and ((radiopaque or radiographic or radiopacity or opacifier) near (particles or particulate or fragments or pieces or powder)) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:02
L22	4	21 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:03
L23	5	21 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:03
L24	6	22 23	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:03
L25	353	(cement or implant\$4 or bone) and inject\$4 and (radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder) with size) and barium and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:21
L26	58	25 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:10
L27	14	25 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:10
L28	64	26 27	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:10

## EAST Search History

L29	116	(cement or implant\$4 or bone) and inject\$4 and (radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder or beads) with barium) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:22
L30	171	(cement or implant\$4 or bone) and inject\$4 and (radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder or beads) with (barium or tungsten or tantalum or gold)) and (PMMA or polymethylmethacrylate or polymethacrylate)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:22
L31	157	(cement or implant\$4 or bone) and inject\$4 and (radiopaque or radiographic or radiopacity or opacifier) and ((particles or particulate or fragments or pieces or powder or beads) with (barium or tungsten or tantalum or gold)) and (PMMA or polymethylmethacrylate or polymethacrylate) and size	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:22
L32	36	31 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:23
L33	7	31 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:23
L34	38	32 33	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/09/07 18:23
S1	122	bone and inject\$4 and radiopaque and contrast and particle	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2003/03/06 17:14
S2	12	bone and inject\$4 and (radiopaque with particle) and (contrast with (media or medium or powder or liquid))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2003/03/06 17:22
S3	10	bone and inject\$4 and (radiopaque with particle) and (radiopaque with (media or medium or powder or liquid))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2003/03/06 17:25

## EAST Search History

S4	3	"6231615".pn. or "6309420".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2003/03/06 17:12
S5	15	623/23.73	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 14:10
S6	41	623/17.12	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 14:10
S7	25	623/17.12 and (metal or radiopaque or radiographic)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 14:14
S8	492	(fluid or liquid or aqueous) and inject\$4 and (metal or radiopaque or radiographic) and implant and percutaneous	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 14:20
S9	49	(fluid or liquid or aqueous) and inject\$4 and (metal or radiopaque or radiographic) and implant and percutaneous and (particle adj size)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 15:07
S10	192	matrix and (radiopaque or radiographic) and bone and (particle adj size)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 15:10
S11	46	matrix and (radiopaque or radiographic) and bone and (particle adj size) and injectable	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 15:10
S12	609	600/431	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 16:17
S13	21	600/431 and bone and matrix	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 16:18
S14	80	600/431 and matrix and inject\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 16:19
S15	25	600/431 and matrix and inject\$4 and particle	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 16:55

## EAST Search History

S16	2	623/902 and matrix and radiopaque and injectable	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 16:57
S17	2	623/902 and matrix and (radiopaque or radiographic or contrast) and injectable	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 16:57
S18	7	(623/902 or 623/917 or 623/919 or 623/908 or 623/923) and matrix and (radiopaque or radiographic or contrast) and injectable	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 17:05
S19	21	(606/76 or 606/77 or 606/92 or 606/94 or 606/97) and matrix and (radiopaque or radiographic or contrast) and injectable	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/11 17:06
S20	11	percutaneous adj vertebroplasty	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 12:15
S21	134	percutaneous adj injection	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 12:17
S22	22	(percutaneous adj injection) and fluoroscop\$2	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 12:56
S23	23	((bone or cement or (hard adj tissue) or polymer or matrix) and (radiopaque or radiographic or contrast) and (injection or injected)) and fluoroscop\$3) and PMMA	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 13:00
S24	51	(percutaneous adj injection) and (radiopaque or radiographic or contrast)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 13:01
S25	24	((percutaneous adj injection) and (radiopaque or radiographic or contrast)) and bone	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 14:08
S26	364	((particle with size) and (radiographic or radiopaque or contrast)) and cement) and (hydroxyapatites or barium or iodine)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 14:10

## EAST Search History

S27	68	(((((particle with size) and (radiographic or radiopaque or contrast)) and cement) and (hydroxyapatites or barium or iodine)) and (injectable or injected)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/12 15:41
S28	240	bone and cement and (particle with size) and (metal or contrast or radiopaque or radiographic) and (fluoroscop\$3 or ray)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2001/12/12 15:44
S29	111	(bone and cement and (particle with size) and (metal or contrast or radiopaque or radiographic) and (fluoroscop\$3 or ray)) and (injection or injectable or injected)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2001/12/12 18:16
S30	94	radiopaque and (particle with size) and fluoroscop\$2 and inject\$5	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2001/12/12 18:18
S31	214	523/117	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/17 10:39
S32	39	523/117 and (injectable or injected or injection)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2001/12/17 10:40
S33	12	(liquid with contrast) and (radiopaque with particles) and inject\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2002/10/09 17:49
S34	687	600/431	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 11:02
S35	30	623/23.73	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 11:03
S36	138	623/23.61	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 11:03
S37	101	623/915	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 11:03
S38	65	623/919	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 11:03

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S39	85	(radiopaque with partic\$6) and (contrast with (liquid or media or fluid))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:07
S40	58	(radiopaque with partic\$6) and (contrast with (liquid or media or fluid)) and (bone or tissue or PMMA)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 12:14
S41	246	523/117	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 12:58
S42	27	((radiopaque with partic\$6) and (contrast with (liquid or media or fluid))) not ((radiopaque with partic\$6) and (contrast with (liquid or media or fluid)) and (bone or tissue or PMMA))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:08
S43	54	623/23.62	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:15
S44	203	623/23.62 or 623/23.61 or 623/23.73	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:15
S45	12	(623/23.62 or 623/23.61 or 623/23.73) and radiopaque	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:16
S46	75	(623/23.62 or 623/23.61 or 623/23.73) and (radiopaque or ray)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:16
S47	13	(623/23.62 or 623/23.61 or 623/23.73) and (radiopaque or xray)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 13:16
S48	0	"6309420".URPN.	USPAT	OR	ON	2002/10/11 13:25

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S49	34	("3701771"   "3882858"   "3919773"   "4288355"   "4341691"   "4365921"   "4373217"   "4404327"   "4554686"   "4610692"   "4637931"   "4728570"   "4791150"   "4837279"   "4900546"   "4966601"   "4969888"   "5015101"   "5112354"   "5282861"   "5304586"   "5336263"   "5336699"   "5367002"   "5451406"   "5476880"   "5507813"   "5571182"   "5574075"   "5676146"   "5681872"   "5759922"   "5792478"   "6080801").PN.	USPAT	OR	ON	2002/10/11 13:26
S50	12	623/17.12 and radiopaque	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 14:47
S51	2	"5574075".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/11 15:06
S52	2	"5258028".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2002/10/15 16:43
S63	2195	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:51
S64	1864	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:53
S65	491	S64 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:52
S66	689	S64 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:52
S67	861	S65 S66	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:53

## EAST Search History

S68	1108	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:24
S69	346	S68 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:54
S70	360	S68 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 13:54
S71	509	S69 S70	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:13
S72	421	S69 S70	USPAT	OR	OFF	2006/04/24 14:14
S73	326	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 and (two with (size or range))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:04
S74	462	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 and ((two or different) with (size or range))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:33
S75	159	S74 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:25
S76	120	S74 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:25
S77	199	S75 S76	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:25
S78	156	S75 S76	USPAT	OR	OFF	2006/04/24 14:25

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S79	182	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and inject\$5 and ((two or different) with (particle or particulate) with (size or range))	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:34
S80	57	S79 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:34
S81	46	S79 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:34
S82	77	S80 S81	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 14:34
S83	77	S80 S81	US-PGPUB; USPAT	OR	OFF	2006/04/24 14:43
S84	2	"6309420".pn. or "6231615".pn.	US-PGPUB; USPAT	OR	OFF	2006/04/24 15:00
S85	764	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and (microns or um )	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:05
S86	707	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and size and (microns )	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:05
S87	324	((radiopaque or contrast or tracer) with (particle or particulate)) and ((radiopaque or contrast or tracer) with (liquid or media or medium or fluid)) and ((particle or particulate) with size with microns)	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:05
S88	71	S87 and @rlad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:06
S89	99	S87 and @ad<"19971014"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:06

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S90	135	S88 S89	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/04/24 15:06
S91	127	S88 S89	US-PGPUB; USPAT	OR	OFF	2006/04/24 15:06
S92	1	"6174330".pn.	US-PGPUB; USPAT	OR	OFF	2006/04/24 17:31
S93	44	gabbay.in. and valve	US-PGPUB; USPAT	OR	OFF	2006/04/24 17:31
S94	40	gabbay.in. and valve and heart	US-PGPUB; USPAT	OR	OFF	2006/04/24 17:32
S95	187	garrison.in. and valve	US-PGPUB; USPAT	OR	OFF	2006/04/24 17:32
S96	51	garrison.in. and valve and heart	US-PGPUB; USPAT	OR	OFF	2006/04/24 17:32